

Figure 1

FIG. 2 is a block diagram of a computer system 100 according to one embodiment of the present invention. The system 100 includes a main memory 106, ROM 108, storage device 110, bus 102, processor 104, processor 105, communication interface 118, display 112, input device 114, and cursor control 116. The system 100 is connected to a local network 122 via a network link 120. The local network 122 is connected to the Internet 128 via an ISP 126. A server 130 is also connected to the Internet 128. A host 124 is connected to the local network 122.

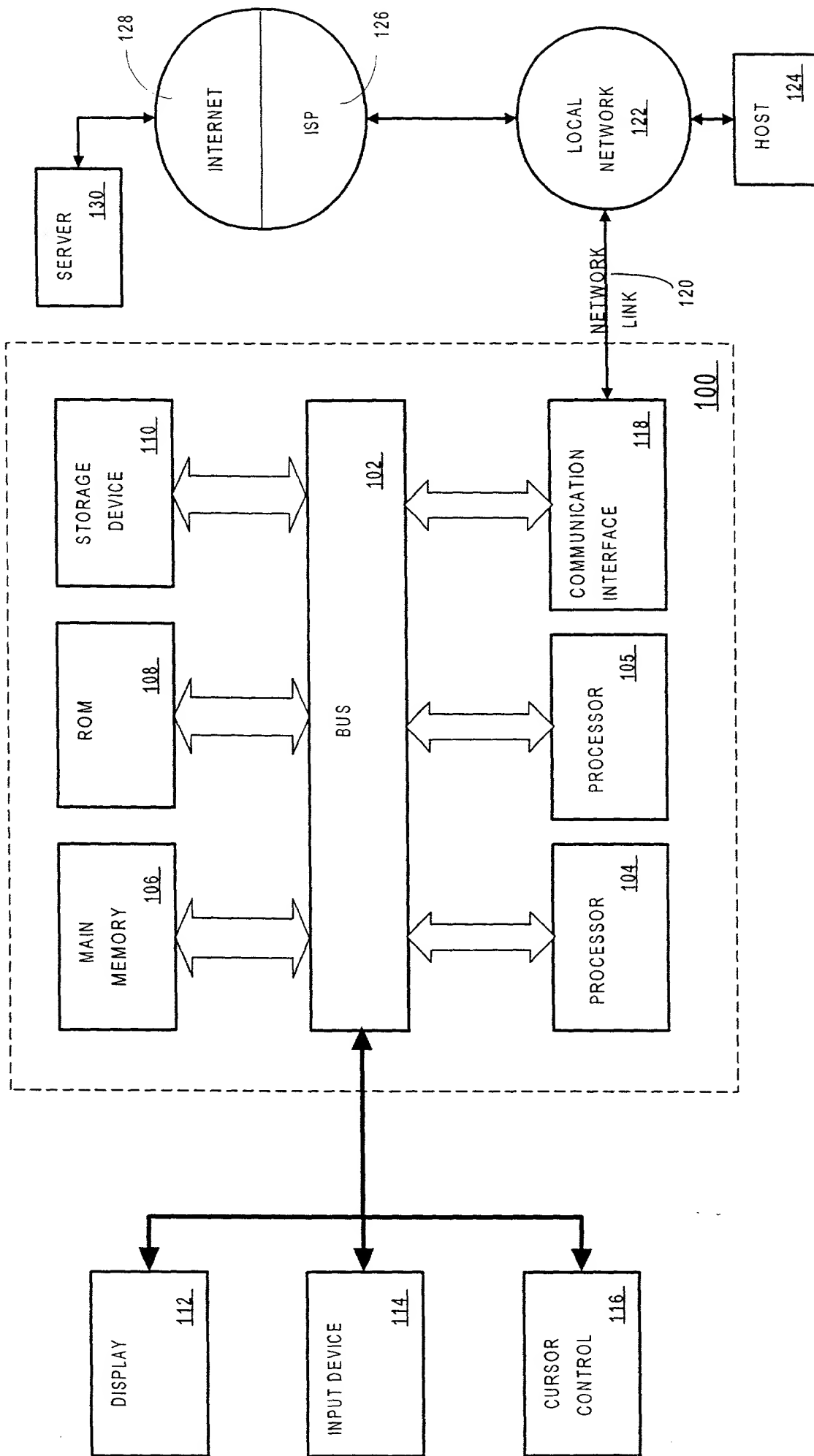
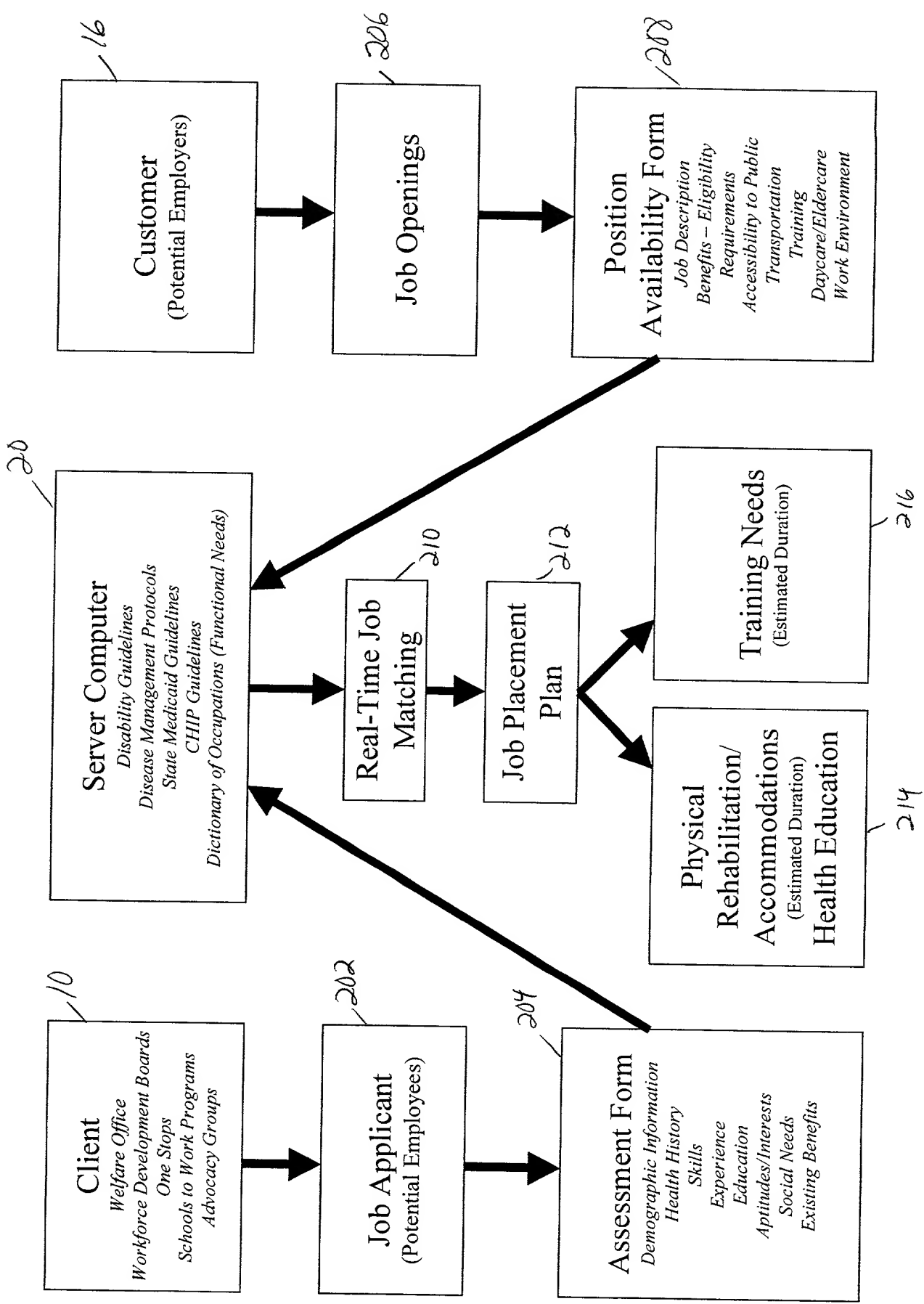


FIG. 2

Figure 3

200



# Client Demographics

300

**Client Demographics**

Case #: 1987435670 Telephone: 215-345-5478

Client Name: Susan Brown DOB: 05/23/1977

Address 1: 1904-A South Street SSN: 0014-54-9204

Address 2: Apartment 4-B Preferred Language: English

City: Philadelphia Marital Status: Separated

State: PA Gender: Female

Zip: 10952 Race: American Indian

Lock-in Status: Currently Locked In

1. Do you have any dependent children or other dependants? Yes No Unknown

Please list them:

Name	Age	Relationship
Angela Smith	4 yrs.	Daughter
Bruce Brown	2 yrs.	Aunt
Alicia Brown	1 yr.	Brother-in-Law
		Common-Law Husband
		Common-Law Wife
		Cousin
		Daughter
		Daughter-in Law
		Father
		Father-in-Law

Demographics Education/Training Health History Work History

Figure 4

# Health History

400

**Health History**

Case #	1987435670	- 402
Name	Susan Brown	- 404
Primary Provider	Michael Jones, MD	- 406
Health Center	Aetna East Hospital	- 408

1. Are you currently under a provider's care? ☒ Yes ☐ No ☐ N/A - 409

Name: Michael Jones, MD - 410  
 Address 1: 32 South Street - 412  
 Address 2: Suite 203 - 418  
 City: Philadelphia State: PA Zip: 19523 - 420

1 a. When was your last doctor's visit? 01/05/2000 - 422  
 1 b. What was the reason for the visit? Flu - 424

2. Have you required healthcare treatment in the past? ☒ Yes ☐ No ☐ N/A - 426

Why?	Date	Reason
	4/28	Check Up
	4/26	Vaccination
		Consult
		IME
		Second Opinion
		Other

3. Do you have a history of any serious illness, such as - 430

☒ None  
☐ Heart Disease

Demographics: Education/Training: Health History: Work History: Govt Assistance: Insurance/Health

Figure 5A



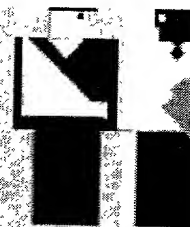
430

Figure 5B

Figure 5B

# New Job Applicant

460



## INSURANCE AND HEALTH PLAN INFORMATION

Client Case Number: 23458034  
Client Name: Roger J. Carmichael  
County: Philadelphia

### HEALTH COVERAGE

Select One:

Plan ID:

Group Number:

Date of Eligibility:

mm/dd/yyyy

Plan Provider Number:

Other Insurance Coverage #1:

PCP Name:

Clinic or Hospital Group:

Special Medical Needs:

- To help us place you in the most appropriate understand the special medical needs you

- Do you have:

- ☐ Asthma
- ☐ Diabetes
- ☐ Heart Disease
- ☒ Low Back Pain
- ☐ Neck Problems
- ☐ Cancer
- ☐ Birth Defects

### LOWER BACK PAIN INVENTORY

Client Case Number: 23458034  
Client Name: Roger J. Carmichael  
County: Philadelphia

Do you require lumbar support?

- ☐ Yes ☐ No

Has your doctor told you not to?

- ☐ Bend  
☐ Twist  
☐ Light Lifting  
☐ Medium Lifting  
☐ Heavy Lifting  
☐ Sit for prolonged periods (over 15 min)  
☐ Sit in vibrating vehicles

CONTINUE

Figure 5C

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as  $t \rightarrow \infty$ . It is shown that the solutions of the system (1) tend to zero as  $t \rightarrow \infty$  if and only if the matrix  $A$  is stable.

Figure 6A



# Work History

520

Work History

**Name:** Susan Brown

**SSN:** 1987435670

**520**

**536**

**538**

1. What is the last job you had? **Circuit City - PC Repair**

**536**

Repaired laptops and desk tops

2. Please describe briefly the job requirements.

3. Did you receive any on the job training to help you? **Yes** ☒ **No** ☐ **N/A** **530**

PC repair for IBM, Toshiba, and NEC laptops and desk top PCs.

Please describe: **Seasonal Employment**

**No Day Care**

**534**

4. How long did you work for this employer?

From: **05/01/99** To: **2/10/99** Total Time: **7 months**

**536**

5. Why did you leave? **No Day Care** **538**

6. Did you have any problems or other issues with that job? **Yes** ☐ **No** ☒ **N/A** **540**

Demographics

Education/Training

Health History

Work History

Gov't Assistance

Insurance/Health

Figure 6B

# Education and Training

542

544  
546

Education and Training

Case #	1987435670
Name	Susan Brown

1. What is the highest school grade you have completed? 12 - 548

2. Did you receive a diploma or other certificate? ☐ Yes ☐ No ☐ N/A ☐ Unknown - 550

Please list them:

High School Diploma	
Vocational School Certificate	Computer Operator

3. Have you had any technical training? ☐ Yes ☐ No ☐ Unknown - 554

Please list:

Small appliance repair	
Computer Operator	
Switchboard Operator	
Other	

4. Have you received any other training? ☐ Yes ☐ No ☐ Unknown - 558

Please list:

PC Repair	
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556  
560

Demographics    Education/Training    Health History    Work History    Civil Assistance    Insurance/Health

Figure 6C



562

back reset sign in contact us help become

# New Job Applicant

## PERSONAL INFORMATION

Client Case Number: 23458034 - 564  
Client Name: Roger J. Carmichael - 566  
County: Philadelphia - 568

How do you keep busy during the day? - 570  
Walk

Do you have access to a car? - 572  
☐ Yes ☐ No

Do you live near public transportation? - 574  
☐ Yes ☐ No

Are you responsible for the care of a child under the age of five? - 576  
☐ Yes ☐ No ☐ Not Applicable

Are you responsible for the care of another adult? - 578  
☐ Yes ☐ No ☐ Not Applicable

How often in the last week have you felt? - 580  
hopeless ☐ None ☐ Some ☐ A lot ☐ Completely

CONTINUE

Figure 6D

home

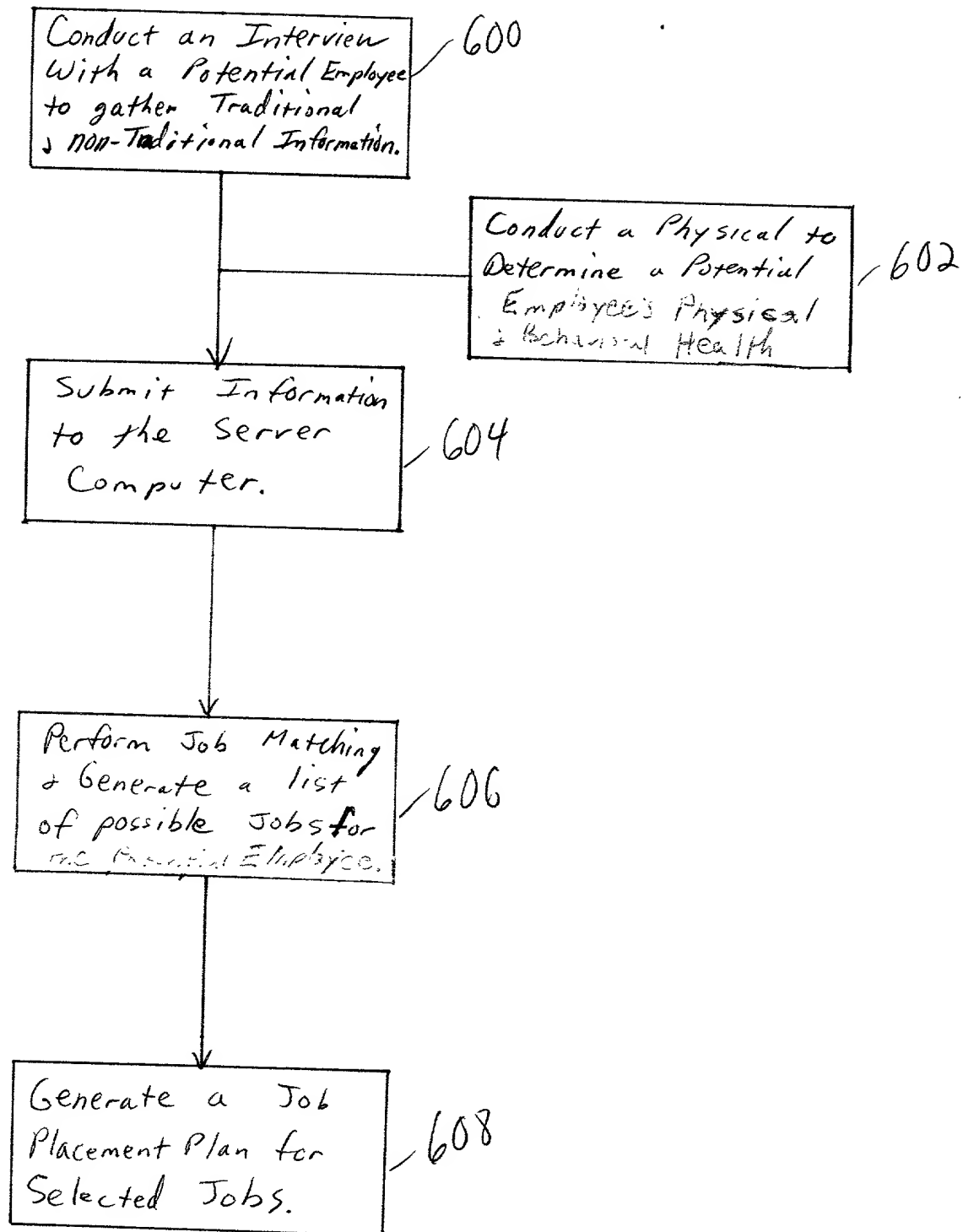


Figure 7



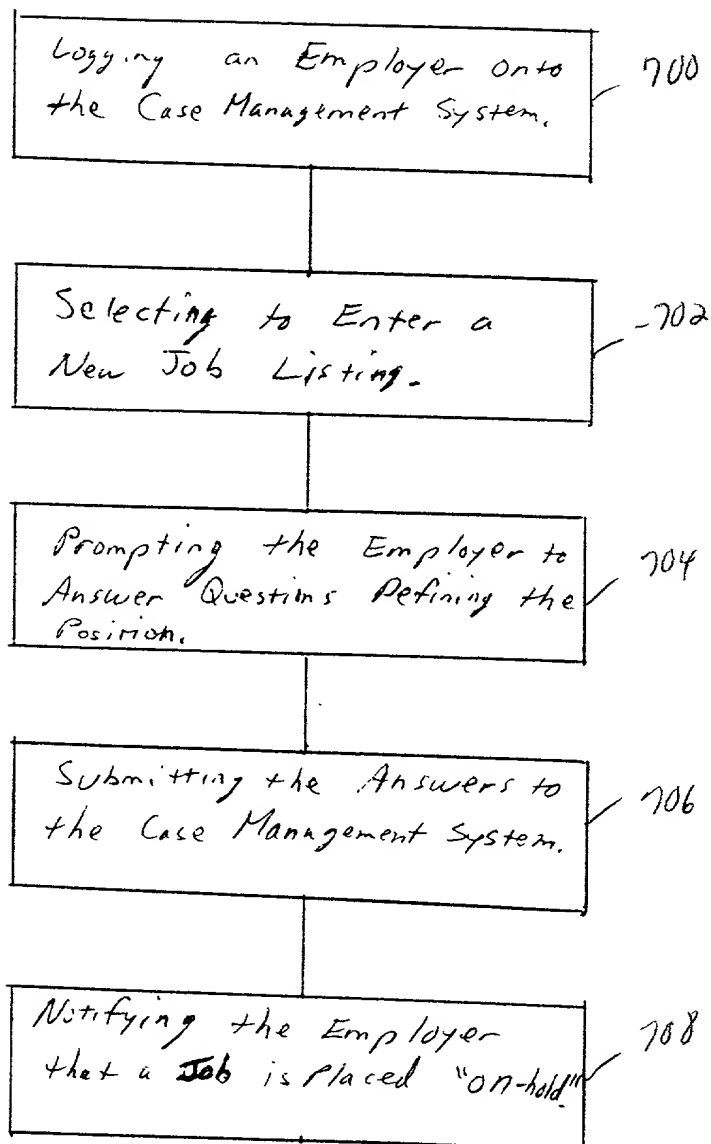


Figure 8

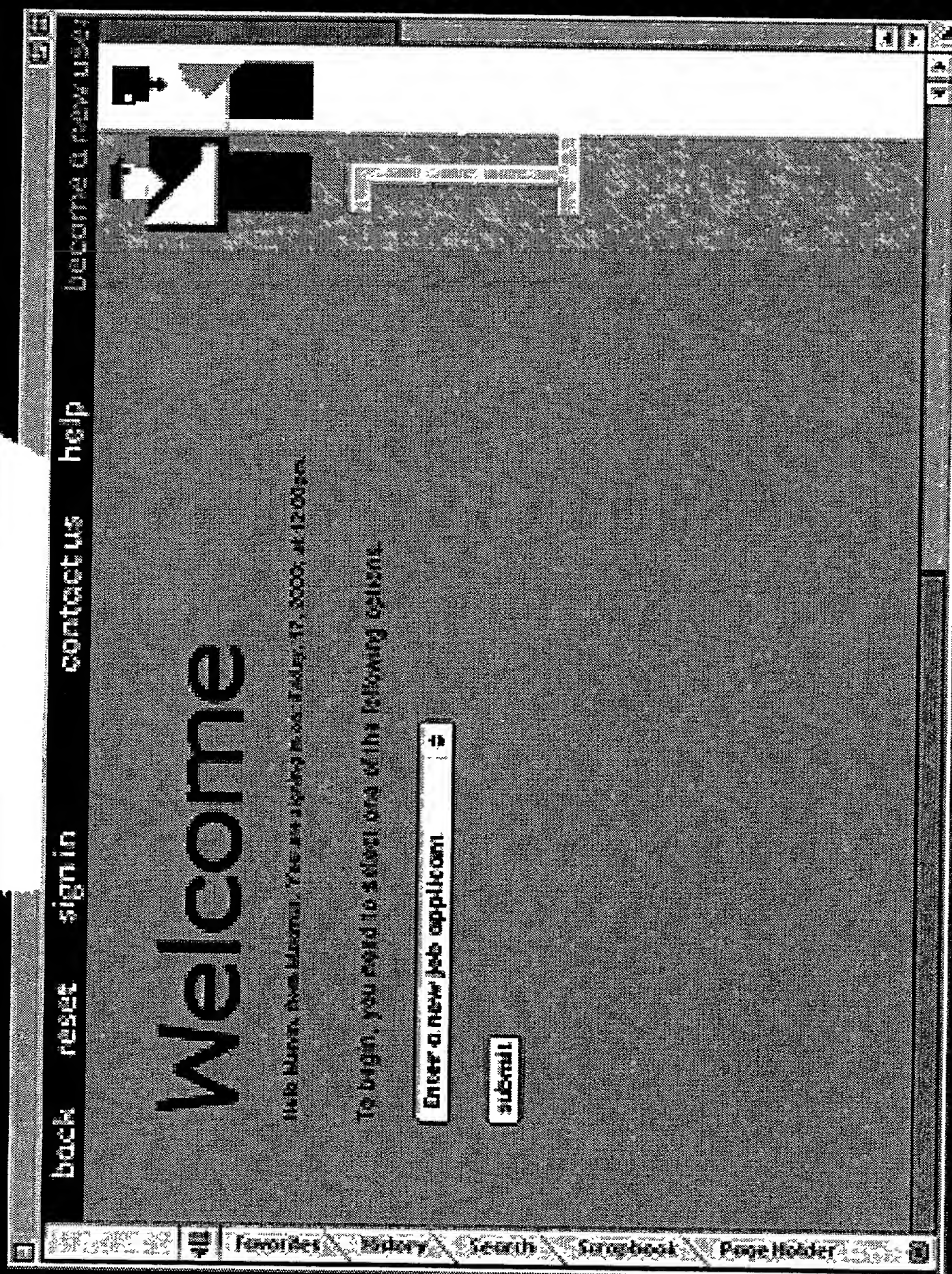


Figure 9A

# New Job

Company Name:	Acme Construction
Location(s):	304
Dept/Div/SBU:	306
Job Title:	308
Date Available:	910

Please select the description below which most closely resembles the physical requirements of the position: - 712

- Lift up to 10 pounds occasionally (less than 35% of time).
- Lift up to 10 pounds occasionally  
sit most of the time
- Lift up to 20 pounds occasionally  
10 pounds frequently (36% t  
standing to a significant deg
- Lift up to 50 pounds occasionally  
20 pounds frequently (36% t  
constantly (67% to 100% of
- Lift up to 100 pounds occasi  
50 pounds frequently (36% t  
constantly (67% to 100% of

Figure 9B

# New Job

Company Name: Acme Construction - 820  
Job Title: Clerk/Accounting Clerk - 822

Minimum Educational Required: High School Diploma - 824

Minimum Skills Required: - 826

Skill	Minimum Level
Reading	6th Grade
Writing	8th Grade
Math	High School
Spelling	6th Grade
Typing	50 w.p.m.
PC/Computer	Beginning

Knowledge of software packages: - 828

Word Perfect 5.1/Microsoft Word 97/98	<input checked="" type="radio"/> Required <input type="radio"/> Preferred
Microsoft Office 97/98	<input checked="" type="radio"/> Required <input type="radio"/> Preferred
Spreadsheets	<input type="radio"/> Required <input checked="" type="radio"/> Preferred
Scheduling	<input checked="" type="radio"/> Required <input type="radio"/> Preferred

Figure 9C



Term  
 Very Low  
 Low  
 Medium  
 High  
 Very High

Description  
 Hands are idle most of the time  
 Frequent pauses, no difficulty keeping up  
 Steady motion but leisurely pace -- no difficulty keeping up  
 Hands in rapid steady motion  
 Constant rapid motion -- difficulty keeping up

Action Required

Use foot controls

Reach above shoulder

Flex/extend elbow

Rotation of wrist

Flex/extend wrist

Deviate wrist

Pinch/grasp with fingers

Rubbing hands/arms

Pounding

Body Side

Frequency

Pace

Left	Rarely (10% or less)	Very Low
Left	Occasionally (11%-33%)	Very Low
Right	Not at all	Very Low
Dominant	Frequently (34% - 66%)	Very Low
Dominant	Frequently (34% - 66%)	Very Low

Figure 9D

906

900

# Job is logged

Job: 2349085349 has been matched, and your account has been charged. The scheduled time for the client interview was:

January 16, 2001 at 3:15 pm — 908

Applicant: John Strong -902

2940850 -904

CONTINUE

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Figure 10

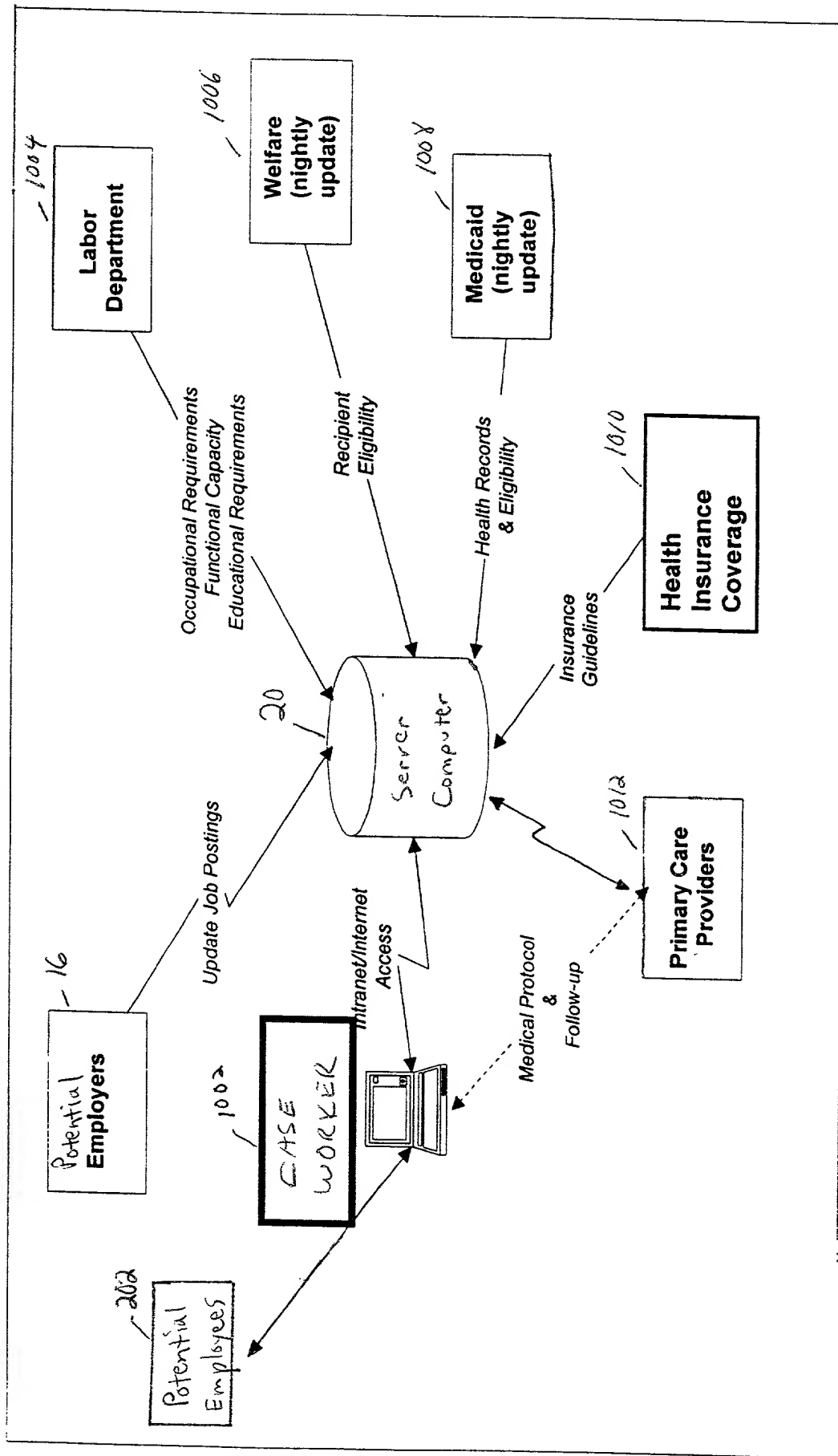


Figure 11

Compare the Information  
from the Potential Employee  
with the Knowledge, skills and  
abilities required for a given job. 1100

Determine the Potential  
Employee's Deficiencies. 1102

Assign a Value to Each  
Deficiency Using  
Predetermined Parameters. 1104

Generate a Matching  
Percentage Based on  
the Deficiency Values. 1106

Generate a List of  
Potential Jobs and  
Corresponding Matching  
Percentages. 1108

Figure 12



# Job Search Results

1200

Client Case Number: 23458034  
Client Name: Roger J. Carmichael  
County: Philadelphia

Match <sup>1202</sup> Title <sup>1204</sup> Location <sup>1206</sup> Company <sup>1208</sup> Job Analysis <sup>1210</sup>

100% System Operator Philadelphia, PA Northern Telecom Description

95% Accounting Clerk Philadelphia, PA Amtrak Plan

87% Research Filing Assistant Philadelphia, PA E-Jets Plan

Next three positions

Figure 13A

Job Title:	Clerk/Accounting Clerk
Location:	Philadelphia, Pa
Depart/Div/SBU:	Customer Service - Amtrak NorthEast
Job Duties:	<ul style="list-style-type: none"> <li>• Types invoices, forms memos documents and correspondence pertaining to personnel or accounting.</li> <li>• Supports all record keeping as assigned both in record logs, accounts, inventories and personal computer.</li> <li>• Maintains records related to entitlements for pay, travel meals reimbursement according to Corporate policy and Agreements negotiated with the unions representing Amtrak Employees</li> <li>• Makes entries in log book on entitlements, hand writing entries on each employee about use of entitlements, vacation, personal holidays, leave, sick leave, military duty, jury duty, and bereavement leave when assigned such duties.</li> <li>• Works within the safety Program guidelines by being alert to physical hazards which affect operations, including modification of, recognition of or cessation of operations.</li> </ul>
Tasks Performed:	<ul style="list-style-type: none"> <li>• Maintains working familiarity with the TCU Agreement as it relates to Personnel and accounting operations.</li> <li>• Types, files and records accounting transactions, as necessary, distributes selected memos and other</li> </ul>

1220

Figure 13B

# Job Analysis

1230

Client Case Number: 23458034  
Client Name: Roger J. Carmichael  
County: Philadelphia

Match	Title	Location	Company
95%	Accounting Clerk	Philadelphia, PA	Amtrak

1232	1234	1236	1238
Deficiency	Job Requirements	Recruitment Recommendation	Action Taken
Lift Capacity: 10lbs.	Lift Capacity: 20lbs.	Physical Therapy	NA
Aversion to stress: 5	High Stress: 10	Stress Reduction Program (two weeks)	NA
No Car/Transportation	Position requires transportation to location	Car pool program: Share-A-Ride	NA

Figure 13C

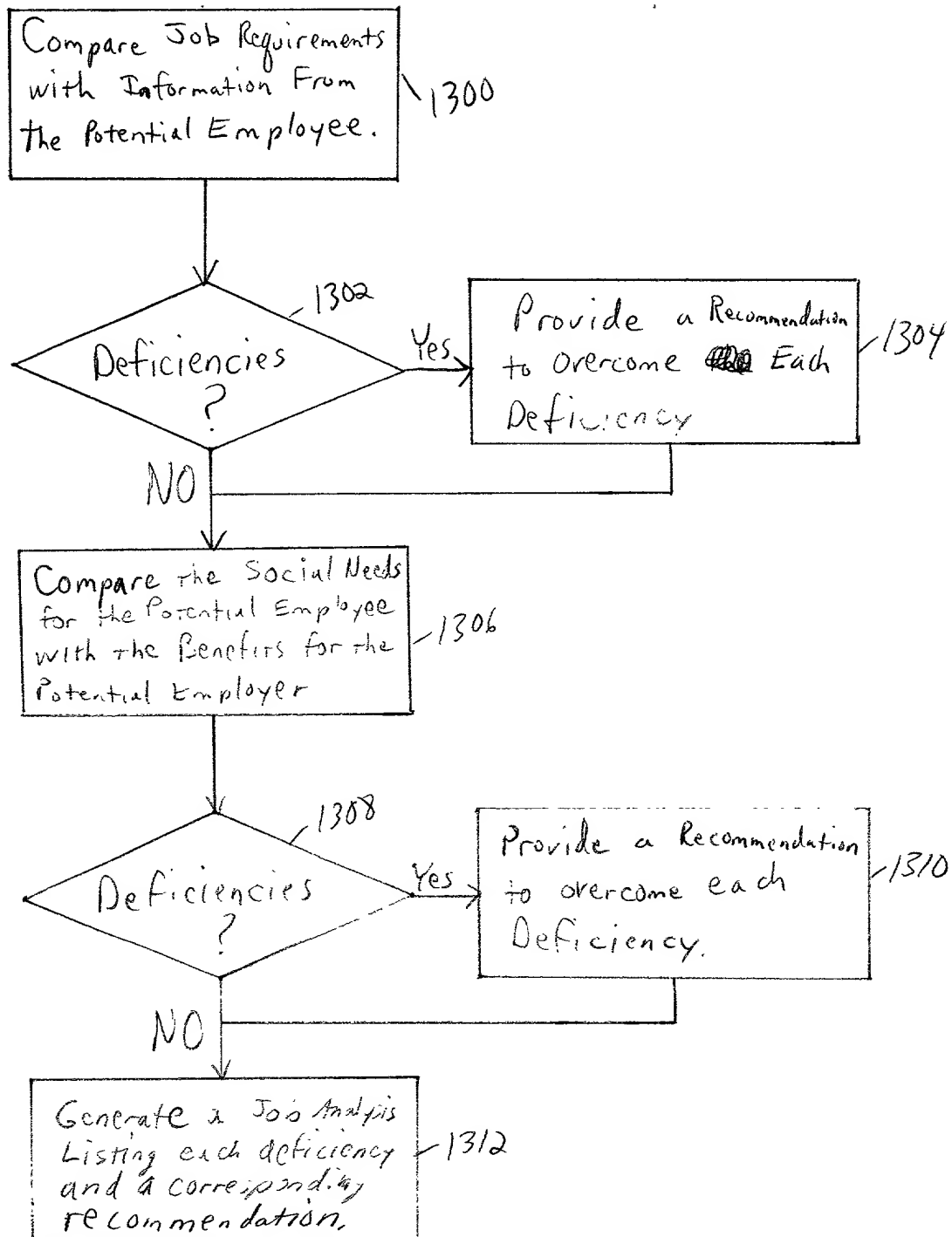


Figure 14



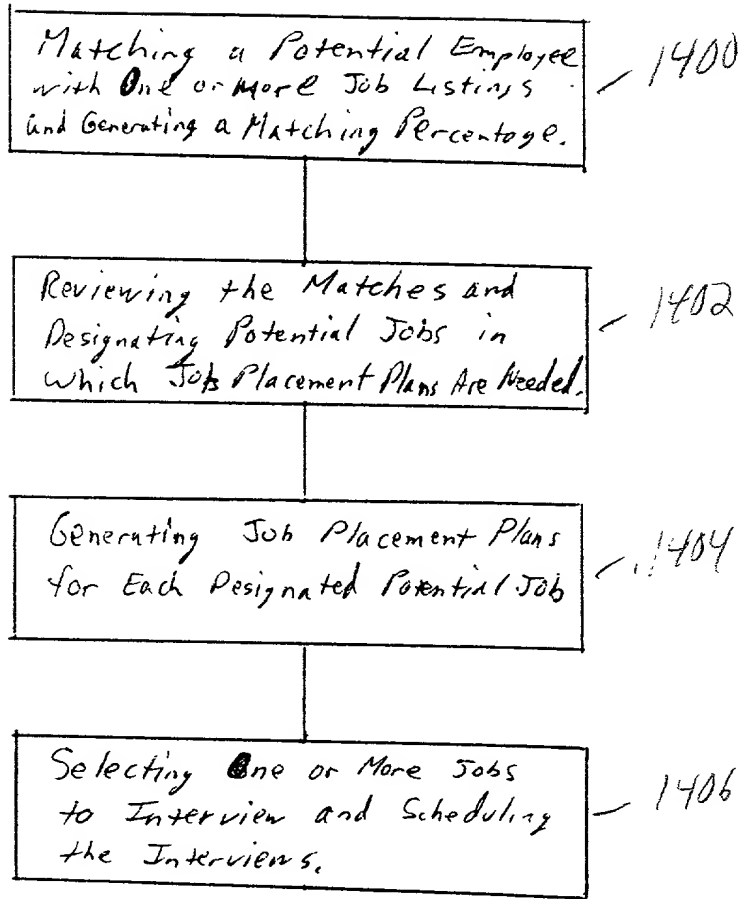


Figure 15